

2625

## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

		Application No.	09/823,733
		Filing Date	March 30, 2001
		First Named Inventor	Edward L. Schwartz
		Art Unit	2625
		Examiner Name	Yubin Hung
Total Number of Pages in This Submission	31	Attorney Docket Number	74451P126

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### ENCLOSURES (check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form	<input checked="" type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Response	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	- Transmittal of Formal Drawings
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> CD, Number of CD(s)	- Return postcard
<input type="checkbox"/> PTO/SB/08		
<input type="checkbox"/> Certified Copy of Priority Document(s)		
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application		
<input type="checkbox"/> Basic Filing Fee		
<input type="checkbox"/> Declaration/POA		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		
Remarks		

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Michael J. Mallie, Reg. No. 36,591 <b>BLAKELY, SOKOLOFF, TAYLOR &amp; ZAFMAN LLP</b>
Signature	
Date	7/20/04

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Typed or printed name	Debra L. Riggio	Date	7/20/2004
Signature		Date	July 20, 2004

JUL 23 2004

# FEE TRANSMITTAL for FY 2004

Effective 01/01/2004. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27.

TOTAL AMOUNT OF PAYMENT

(\$)

## Complete if Known

Application Number	09/823,733
Filing Date	March 30, 2001
First Named Inventor	Edward L. Schwartz
Examiner Name	Yubin Hung
Art Unit	2625
Attorney Docket No.	74451P126

## METHOD OF PAYMENT (check all that apply)

Check     Credit card     Money Order     Other     None

 Deposit AccountDeposit Account Number **02-2666**Deposit Account Name **Blakely, Sokoloff, Taylor & Zafman LLP**

The Commissioner is authorized to: (check all that apply)

- Charge fee(s) indicated below     Credit any overpayments
- Charge any additional fee(s) or underpayment of fees as required under 37 CFR §§ 1.16, 1.17, 1.18 and 1.20.
- Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	770	2001	385	Utility filing fee	
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	
<b>SUBTOTAL (1)</b>		<b>( \$ )</b>			

## 2. EXTRA CLAIM FEES

Total Claims	Extra Claims	Fee from below	Fee Paid
	110*	=	
	16 =	X	
		=	

Multiple Dependent

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1202	18	2202	9	Claims in excess of 20	
1201	86	2201	43	Independent claims in excess of 3	
1203	290	2203	145	Multiple Dependent claim, if not paid	
1204	86	2204	43	**Reissue independent claims over original patent	
1205	18	2205	9	**Reissue claims in excess of 20 and over original patent	
<b>SUBTOTAL (2)</b>		<b>( \$ )</b>			

\*or number previously paid, if greater. For Reissues, see below

## 3. ADDITIONAL FEES

Large Entity	Small Entity	Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)
1051	130	2051	65 Surcharge - late filing fee or oath
1052	50	2052	25 Surcharge - late provisional filing fee or cover sheet.
2053	130	2053	130 Non-English specification
1812	2,520	1812	2,520 For filing a request for ex parte reexamination
1804	920*	1804	920 * Requesting publication of SIR prior to Examiner action
1805	1,840*	1805	1,840 * Requesting publication of SIR after Examiner action
1251	110	2251	55 Extension for reply within first month
1252	420	2252	210 Extension for reply within second month
1253	950	2253	475 Extension for reply within third month
1254	1,480	2254	740 Extension for reply within fourth month
1255	2,010	2255	1,005 Extension for reply within fifth month
1404	330	2401	165 Notice of Appeal
1402	330	2402	165 Filing a brief in support of an appeal
1403	290	2403	145 Request for oral hearing
1451	1,510	2451	1,510 Petition to institute a public use proceeding
1452	110	2452	55 Petition to revive - unavoidable
1453	1,330	2453	665 Petition to revive - unintentional
1501	1,330	2501	665 Utility issue fee (or reissue)
1502	480	2502	240 Design issue fee
1503	640	2503	320 Plant issue fee
1460	130	2460	130 Petitions to the Commissioner
1807	50	1807	50 Processing fee under 37 CFR 1.17(q)
1806	180	1806	180 Submission of Information Disclosure Stmt
8021	40	8021	40 Recording each patent assignment per property (times number of properties)
1809	770	1809	385 Filing a submission after final rejection (37 CFR § 1.129(a))
1810	770	2810	385 For each additional invention to be examined (37 CFR § 1.129(b))
1801	770	2801	385 Request for Continued Examination (RCE)
1802	900	1802	900 Request for expedited examination of a design application
Other fee (specify)			

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$)

## SUBMITTED BY

Complete (if applicable)

Name (Print/Type)	Michael J. Mallie	Registration No. (Attorney/Agent)	36,591	Telephone	(408) 720-8300
Signature				Date	7/2/04

Based on PTO/SB/17 (10-03) as modified by Blakely, Sokoloff, Taylor & Zafman (wlr) 02/10/2004.  
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DOCKET NO.: 74451P126

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

EDWARD L. SCHWARTZ, ET AL.

Application No.: 09/823,733

Filed: March 30, 2001

For: CONTEXT MODEL ACCESS TO  
MEMORY BASED ON RUN AND SKIP  
COUNTS AND CONTEXT MODEL  
SKIPPING

Art Group: 2625

Examiner: Yubin Hung

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JUL 27 2004

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

TRANSMITTAL OF FORMAL DRAWINGS

Sir:

Enclosed herewith for filing in the above-identified U.S. Patent Application are the formal drawings, 26 sheets including 37 Figures. Please charge any additional fees or credit any overpayment to Deposit Account No. 02-2666. A duplicate copy of the Fee Transmittal is enclosed for this purpose.

Respectfully submitted,  
Blakely, Sokoloff, Taylor & Zafman LLP

Dated: 7/20/04

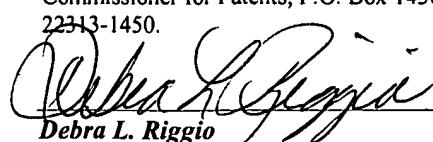


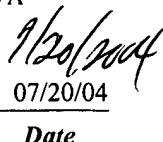
Michael J. Mallie, Reg. No. 36,591

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Debra L. Riggio

  
Date  
11/20/2004  
07/20/04

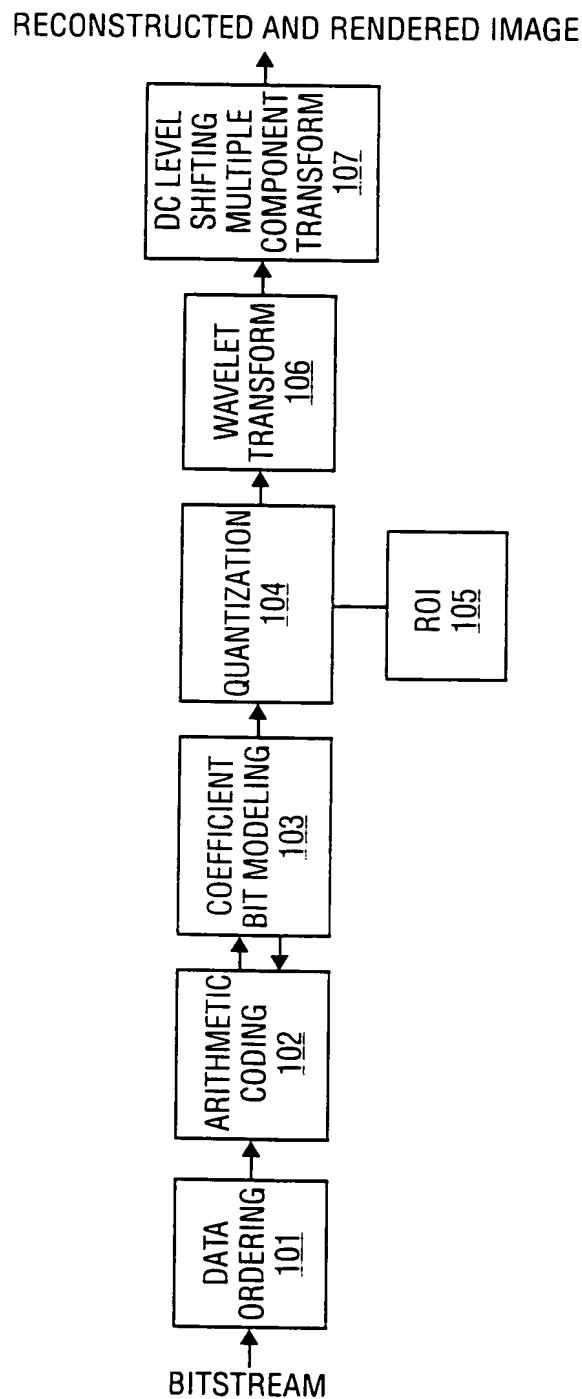


FIG. 1



SP 0	SP 4	C 8	C 12	C 16	C 20	C 24	C 28
R 1	SP 5	C 9	C 13	C 17	C 21	C 25	C 29
R 2	SP 6	SP 10	SP 14	SP 18	C 22	C 26	C 30
SP 3	SP 7	R 11	R 15	SP 19	C 23	C 27	C 31
C 32	SP 36	SP 40	SP 44	SP 48	C 52	C 56	C 60
C 33	C 37	C 41	C 45	C 49	C 53	C 57	C 61
C 34	C 38	C 42	C 46	C 50	C 54	C 58	C 62
C 25	C 39	C 43	C 47	C 51	C 55	C 59	C 63

FIG. 2A

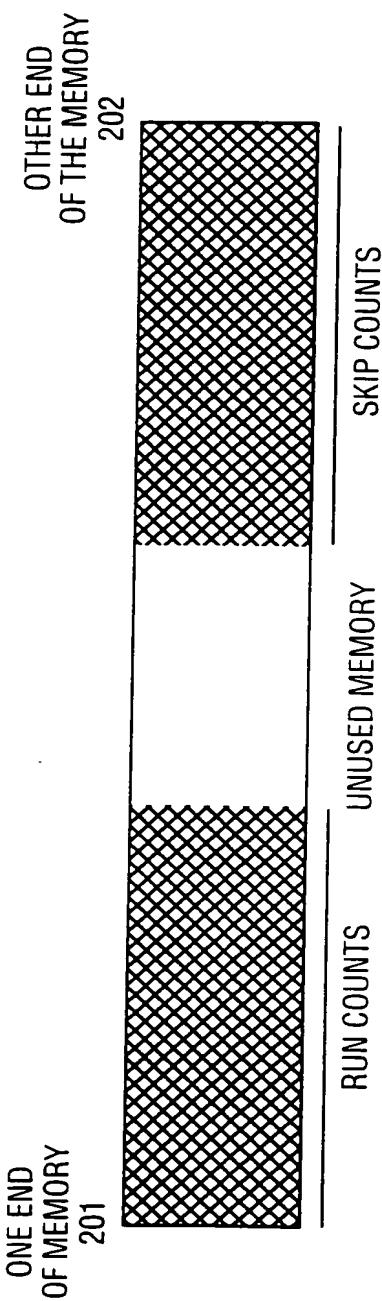


FIG. 2B

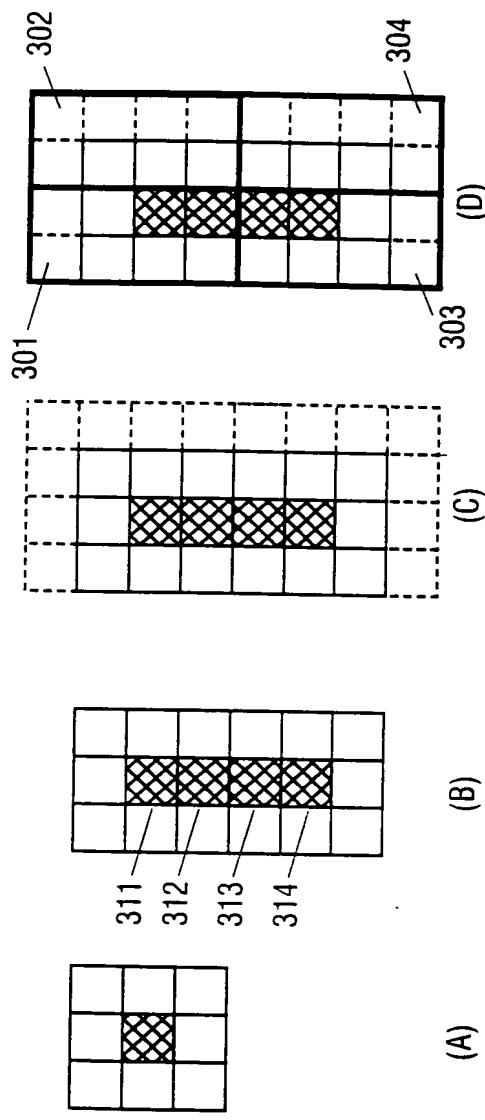


FIG. 3



	0	1	2	3	4	5	6	7
0	A	B	A	B	A	B	A	B
1	C	D	C	D	C	D	C	D
2	A	B	A	B	A	B	A	B
3	C	D	C	D	C	D	C	D
4	A	B	A	B	A	B	A	B

FIG. 4

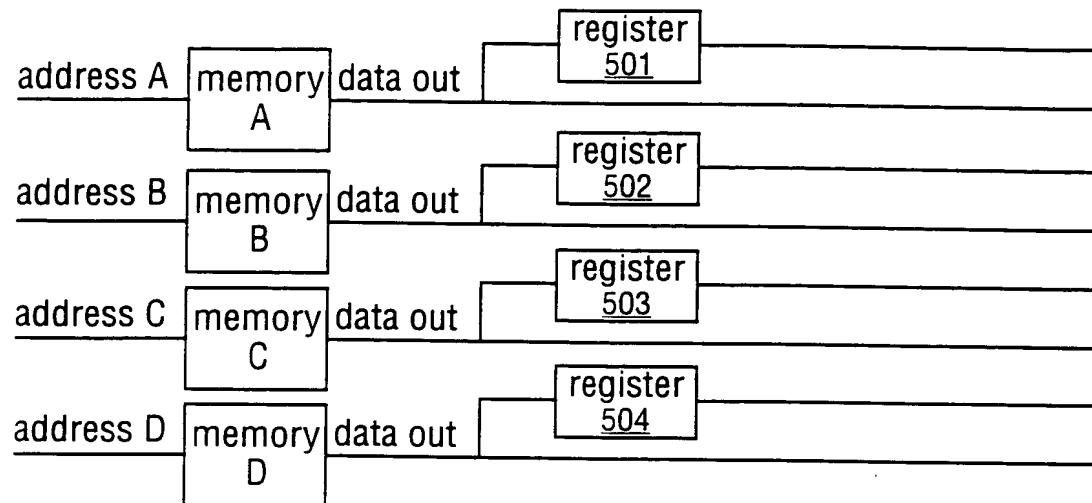


FIG. 5

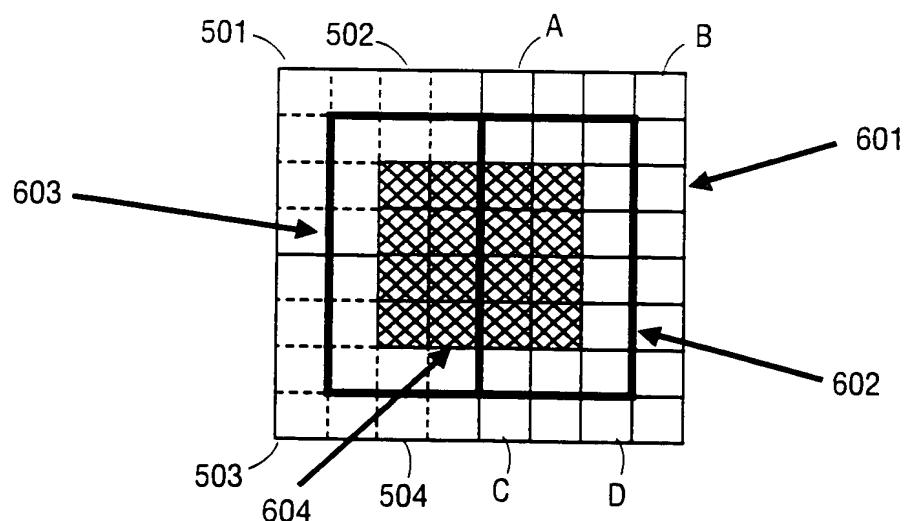


FIG. 6

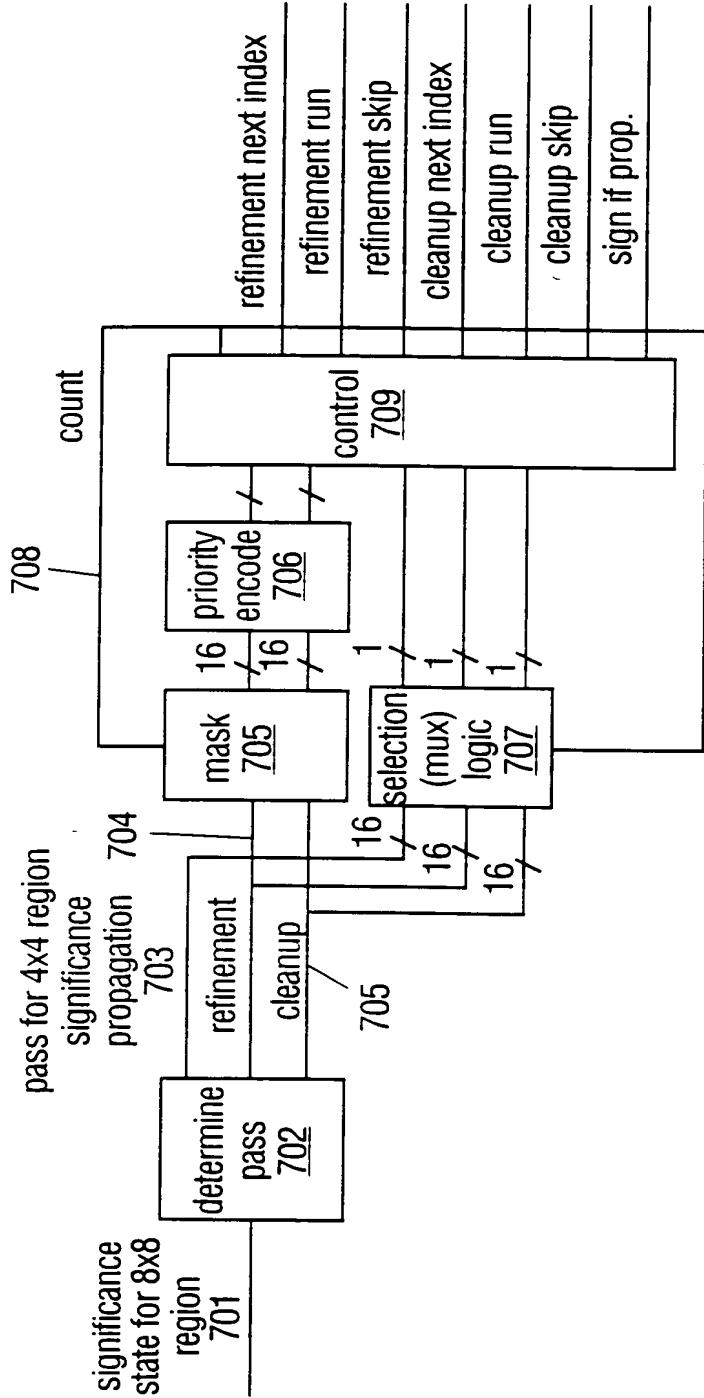


FIG. 7

SP pass:  $10^*2$  for SP pass coefficients  
6 for C and R pass coefficients  
C pass:  $4^*2$  for C pass coefficients  
R pass: 2 for R pass  
total: 36 clocks = 2.25 clocks per coefficient

SP	SP	SP	SP
C	C	C	C
SP	SP	SP	SP
SP	R	R	SP

FIG. 8

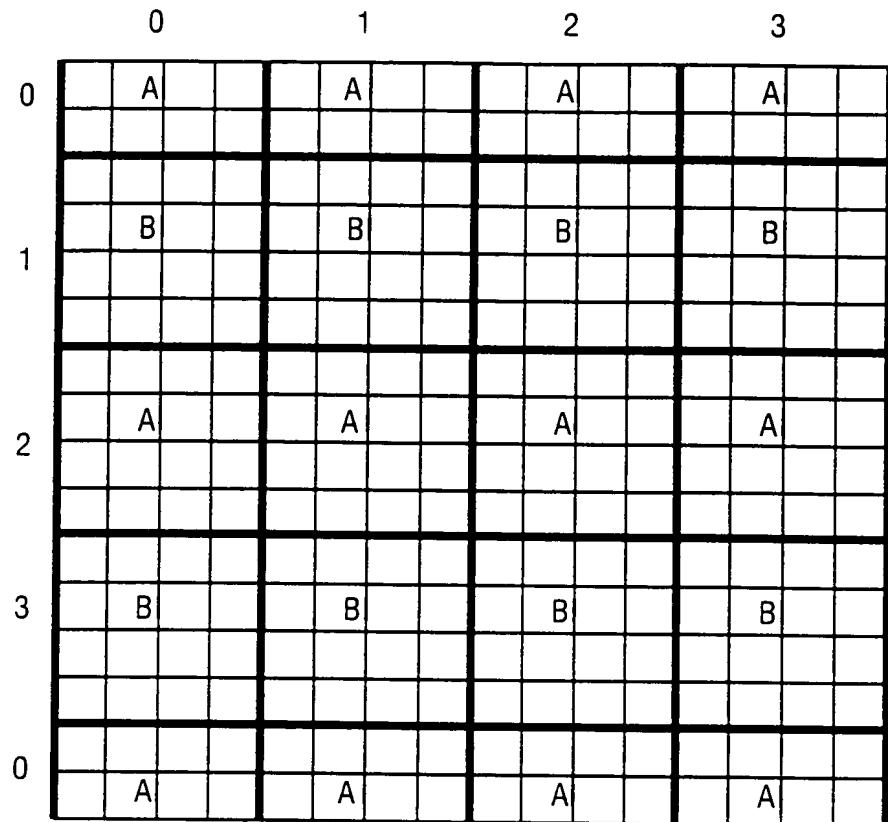


FIG. 9

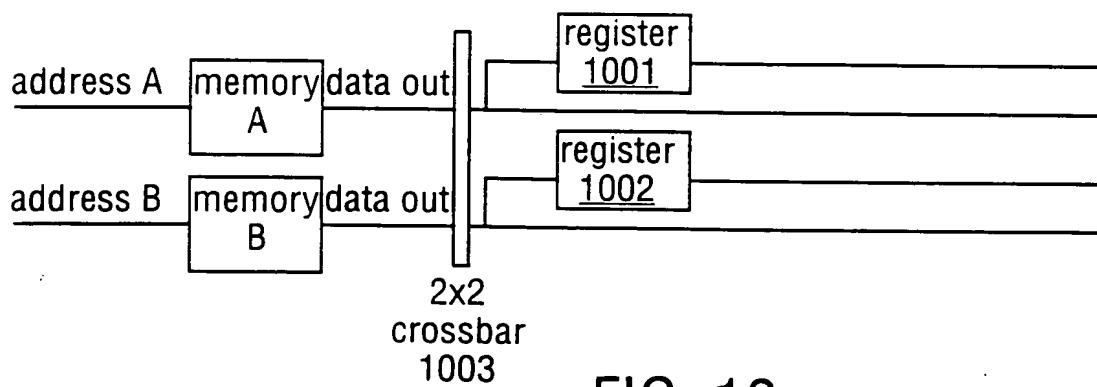


FIG. 10

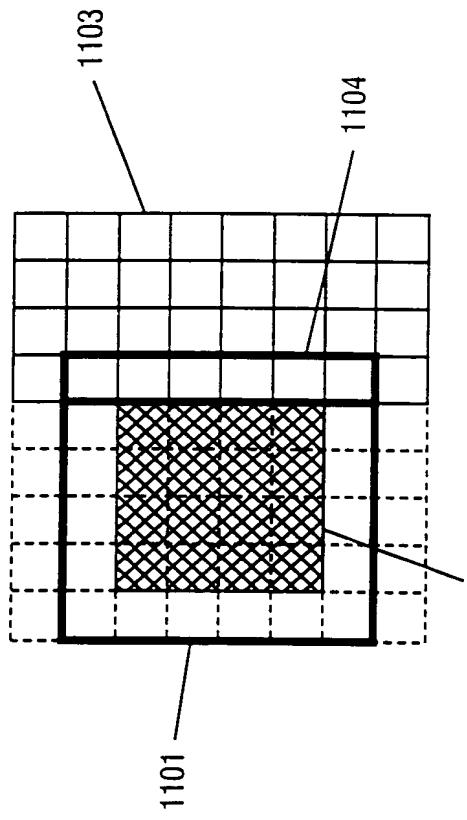


FIG. 11

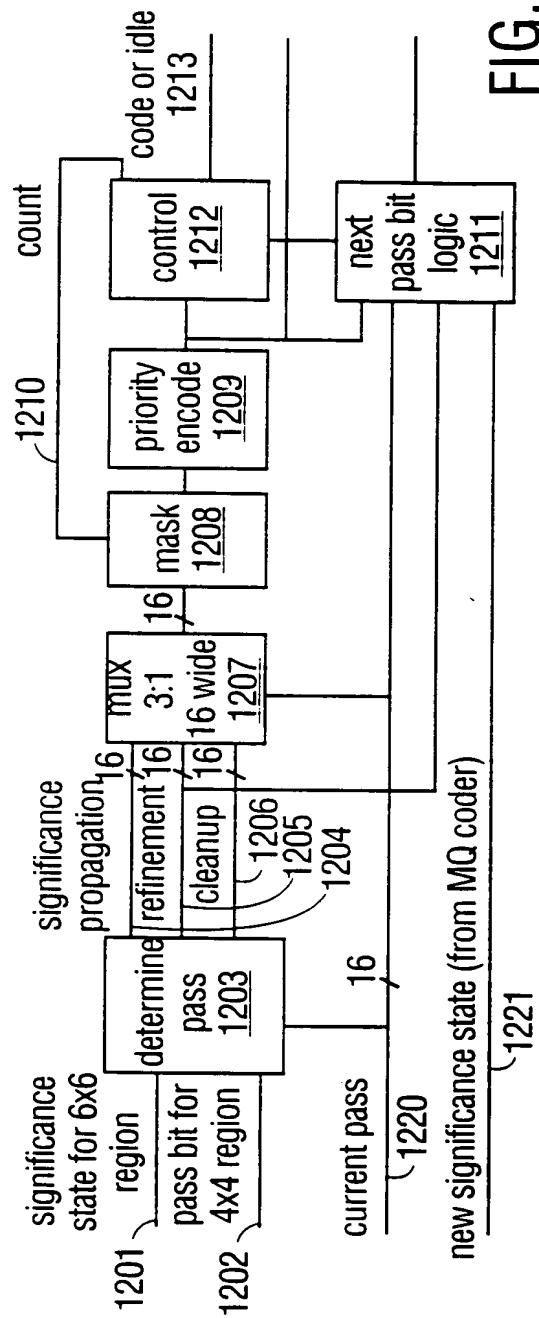


FIG. 12

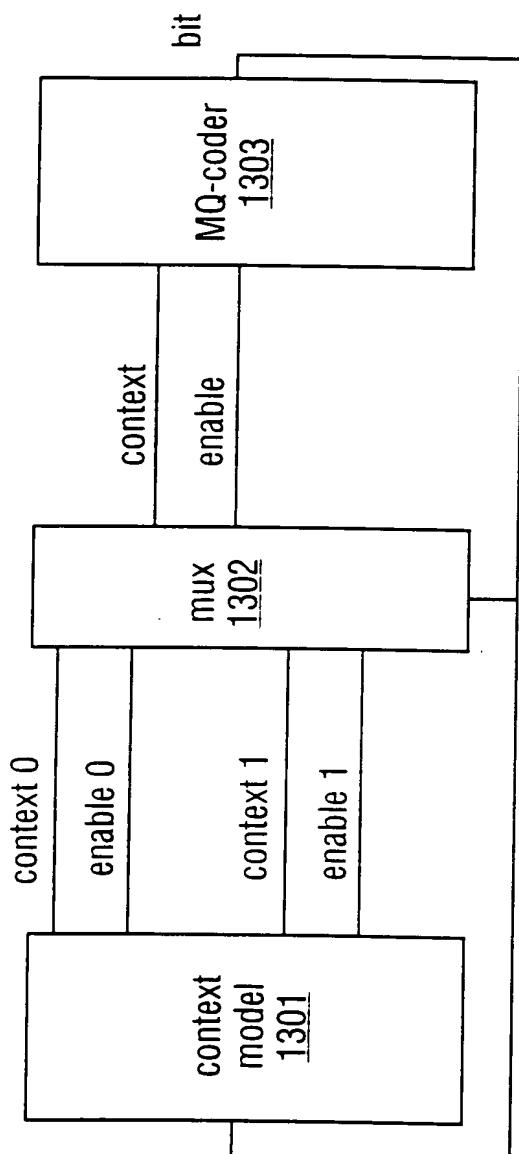


FIG. 13

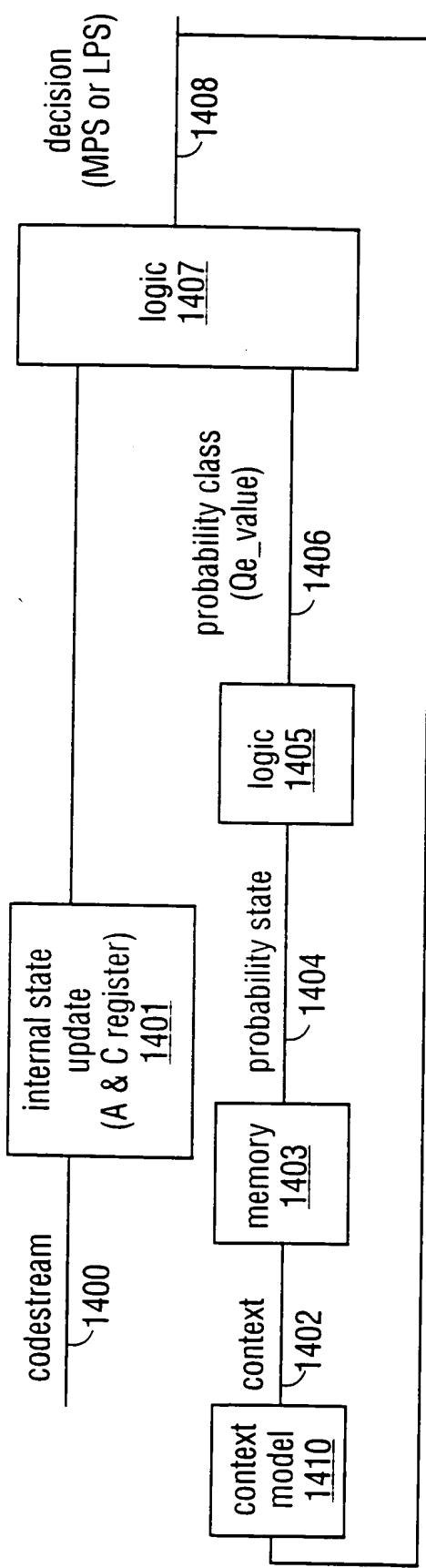


FIG. 14A

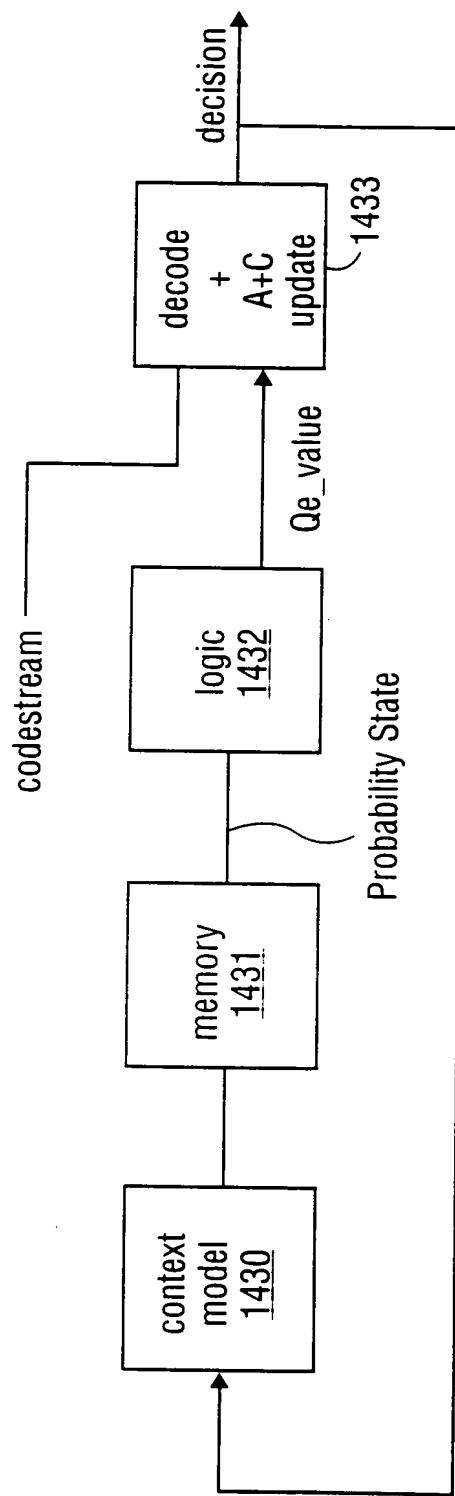


FIG. 14B

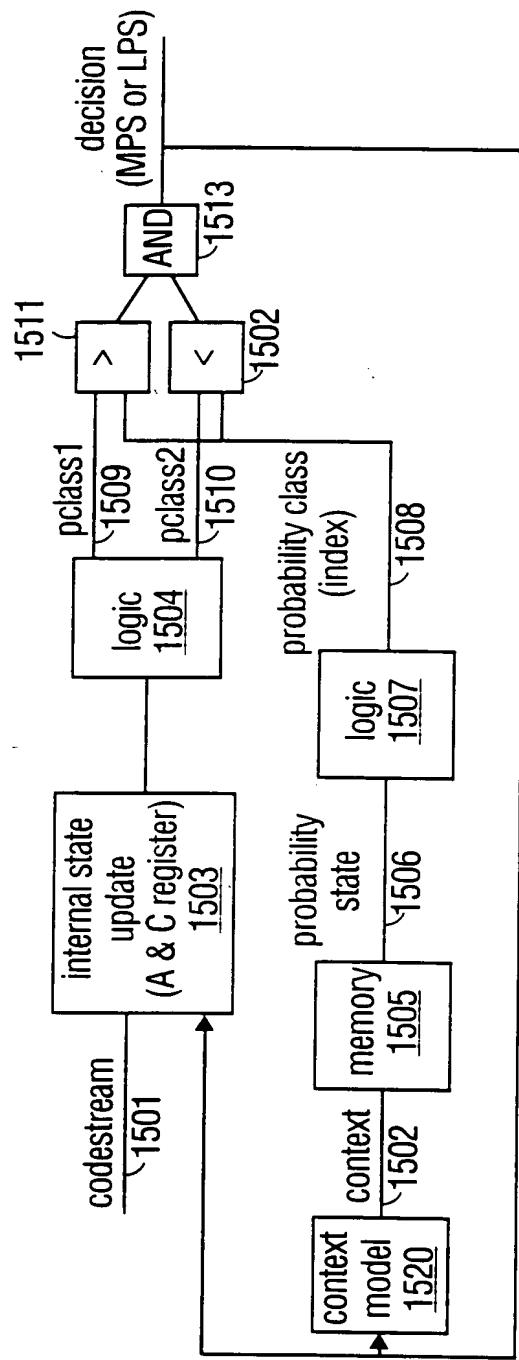


FIG. 15

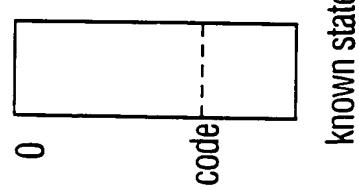
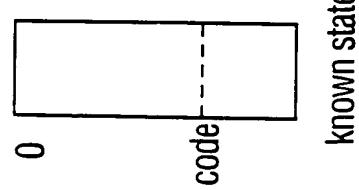
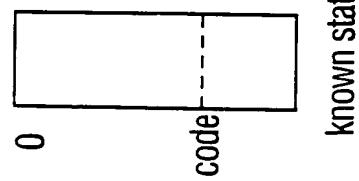
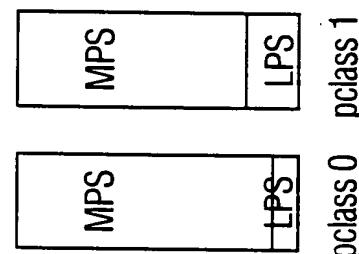
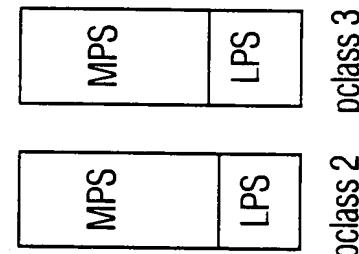
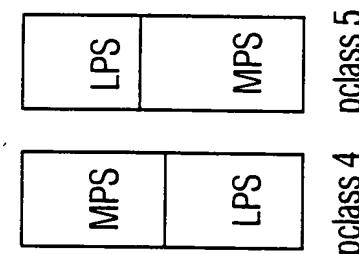
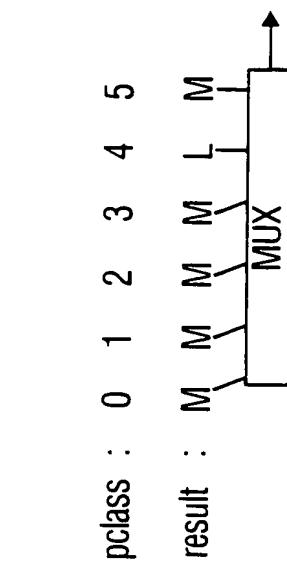


FIG. 16A

FIG. 16B

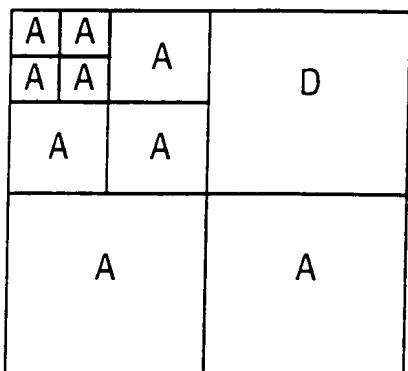


5MPS
4 MPS
3 MPS
2 MPS
1 MPS
LPS

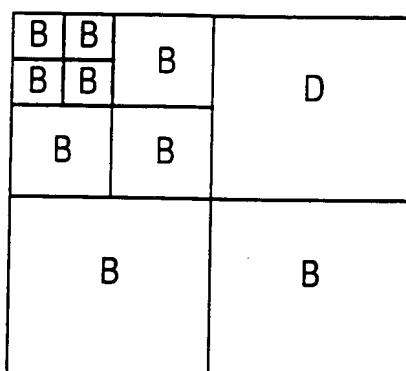
FIG. 17



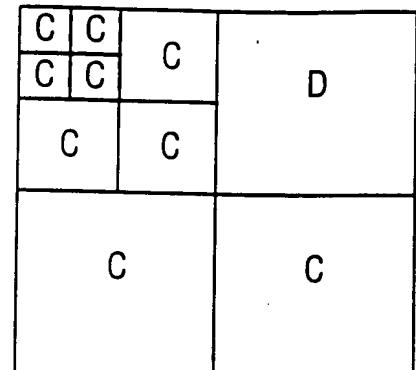
**luminance**



chrominance

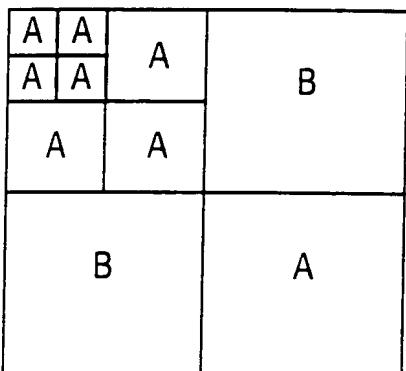


chrominance



(A)

A

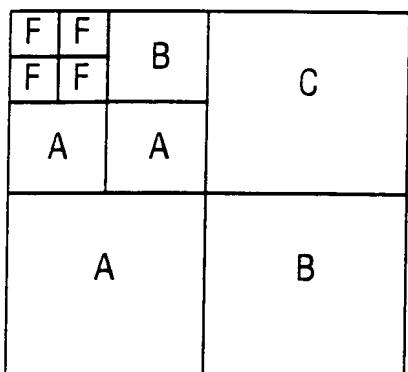


C	C		
C	C	C	D
C	C		
D			C

E	F
E	
	E

(B)

D

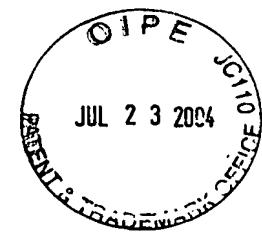


G	G	C	F
G	G		
B	C		
D			H

E	
D	E
	H

(C)

FIG. 18



luminance

A	A	A	B
A	A		
A	A	A	
B		A	
B			

chrominance

C	C	C	
C	C		
C		C	
C			
D			

chrominance

D	D	D	
D	D		
D	D	D	
D			
D			

(A)

F	F	F	C
A	A		
F	F	F	
A	B		
A	B		

B	B	C	
C	C		
A	B	A	
D			
D			

D	D	F	
E	E		
D	E	D	
E			
E			

(B)

A	A	A	C
A	A		
A	A	A	
B			
B	D		

E	E	E	
E	E		
E	E	E	
F			
F			

G	G	G	
G	G		
G	G	G	
H			
H			

(C)

FIG. 19



luminance

A	A	D	C
A	A		
		D	A
D	A		
A		B	

chrominance

B	B	D	
B	B		
		D	B
D	B		

chrominance

C	C	D	
C	C		
		D	C
D	C		

(A)

A	A	A	C
A	A		
		A	A
A	A		
B		D	

E	E	E	
E	E		
		E	E
E	E		

F	F	F	
F	F		
		F	F
F	F		

(B)

A	A	H	E
A	A		
		B	A
B	A		
C		D	

F	F	H	
F	F		
		B	F
B	F		

G	G	H	
G	G		
		B	G
B	G		

(C)

FIG. 20

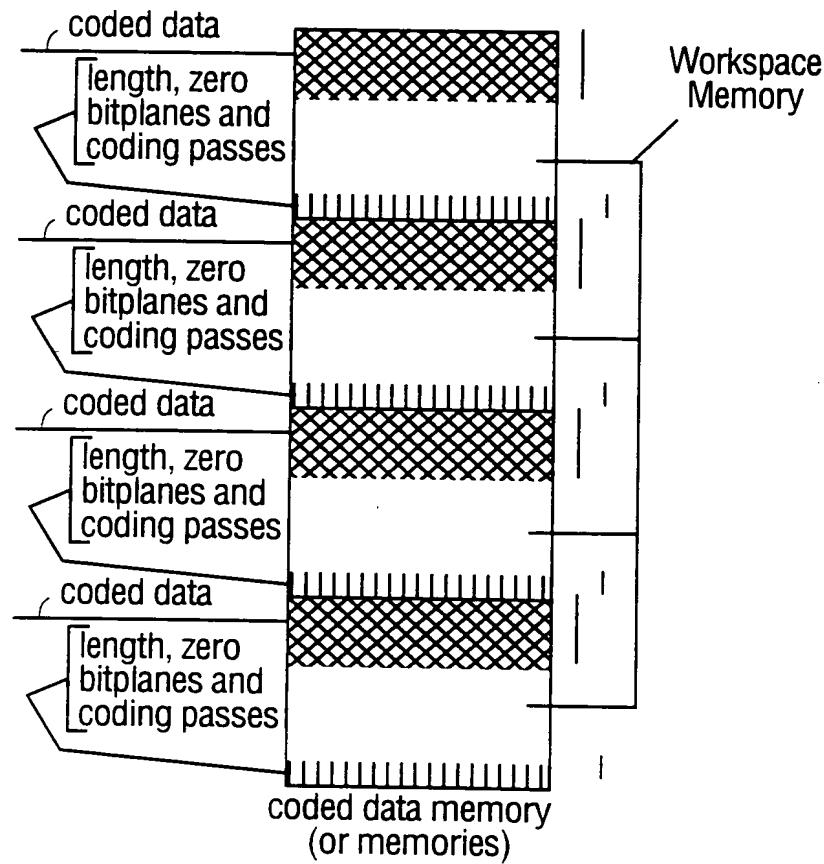
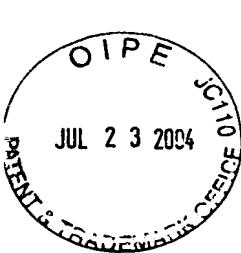
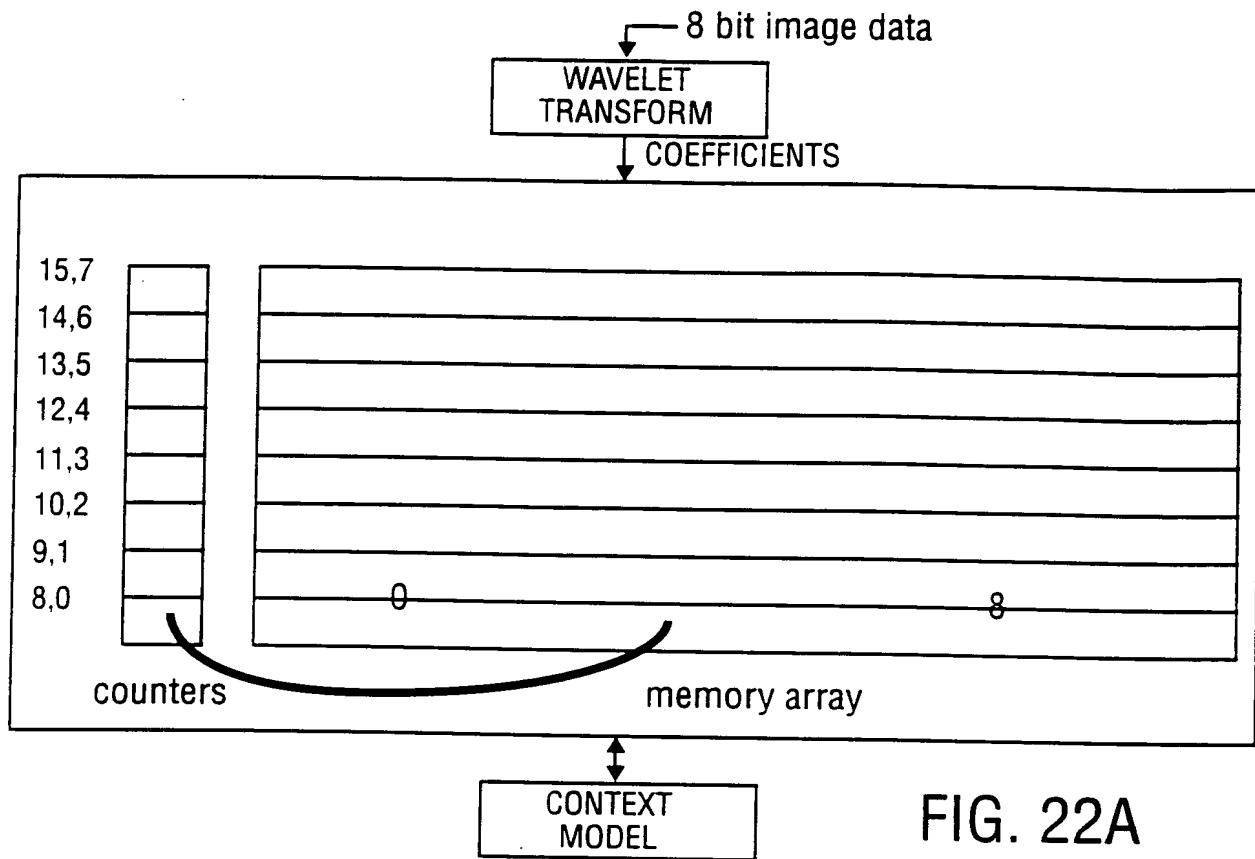


FIG. 21



**FIG. 22A**

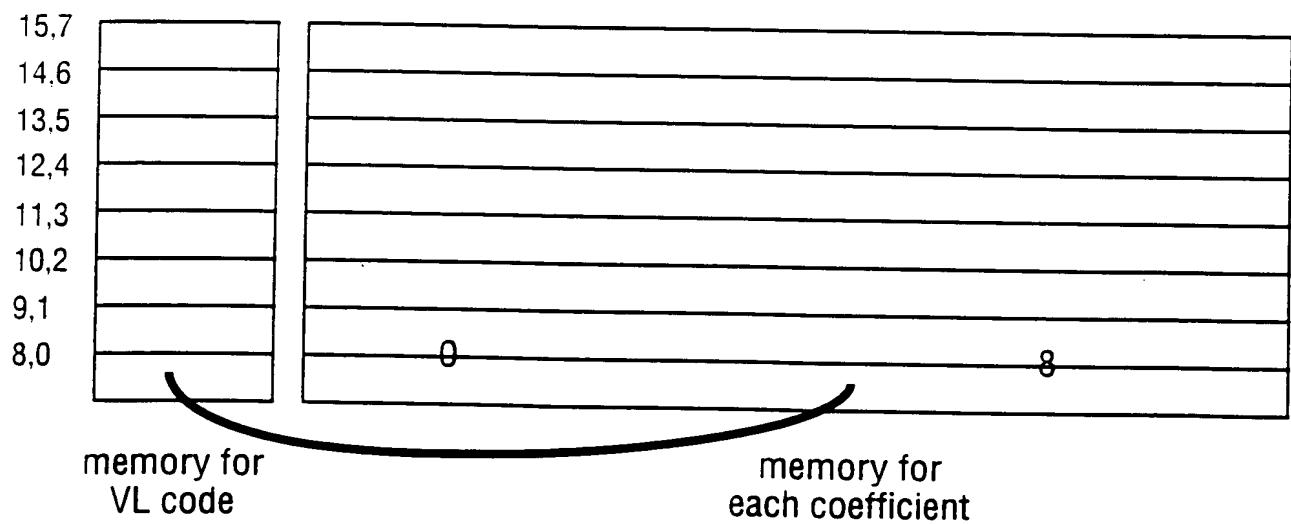


FIG. 23

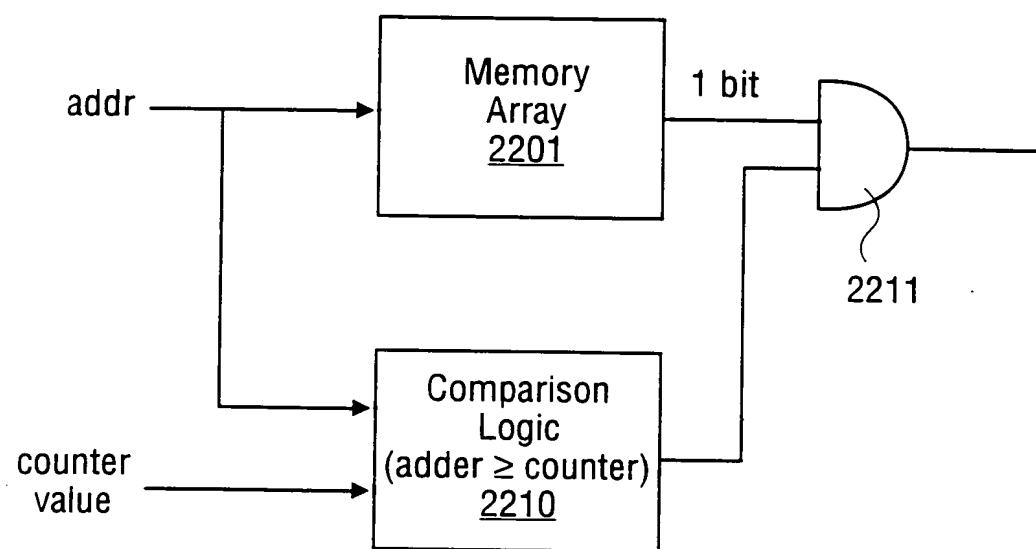


FIG. 22B

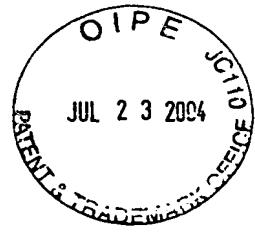


FIG. 24

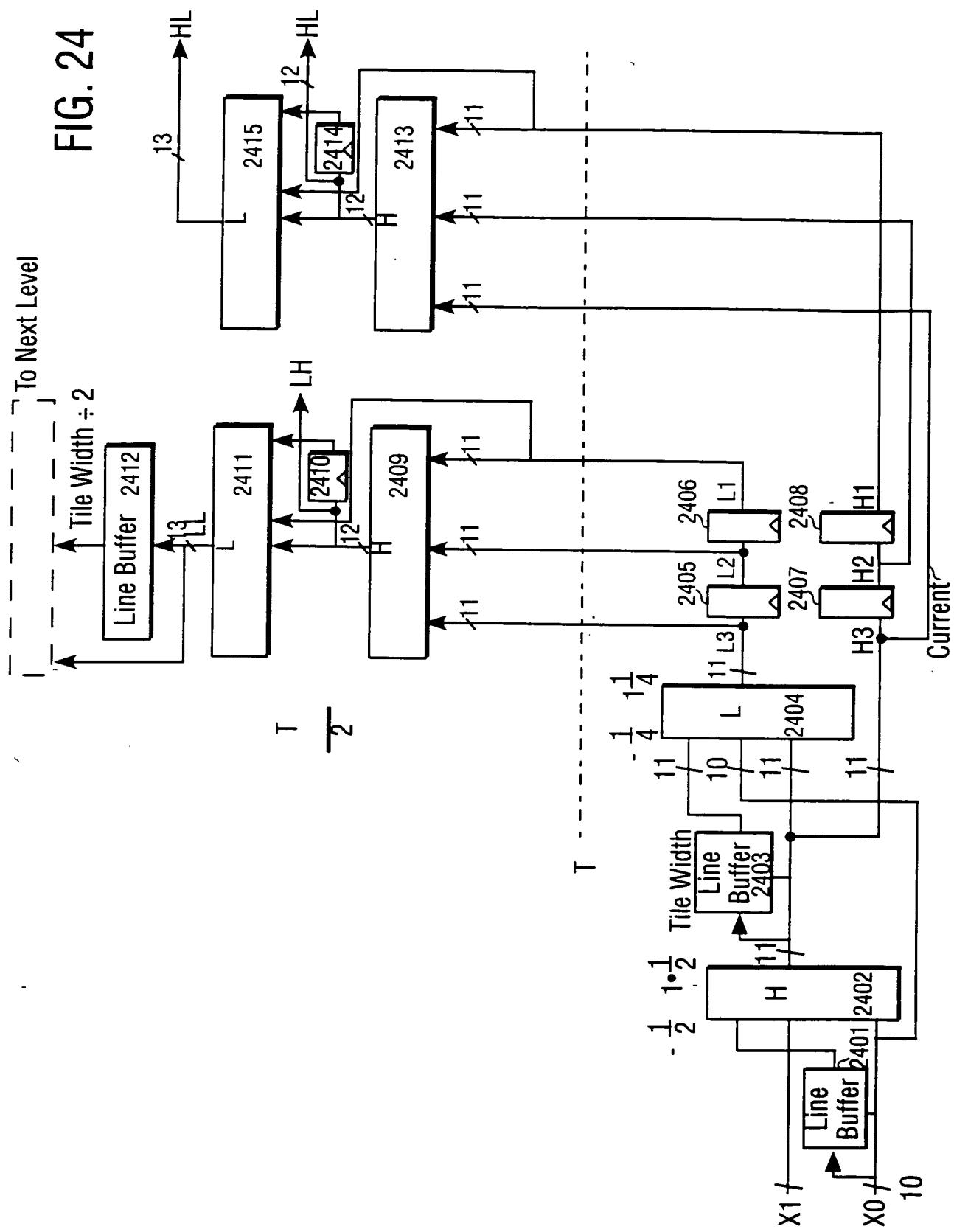
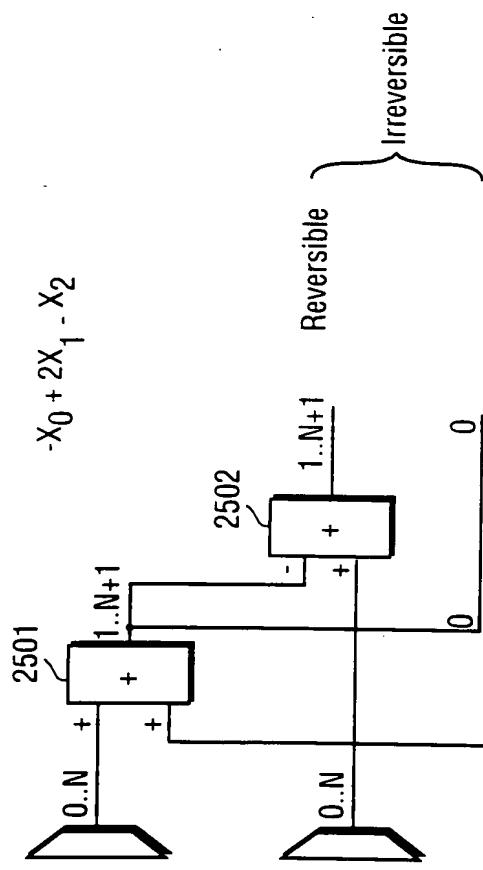


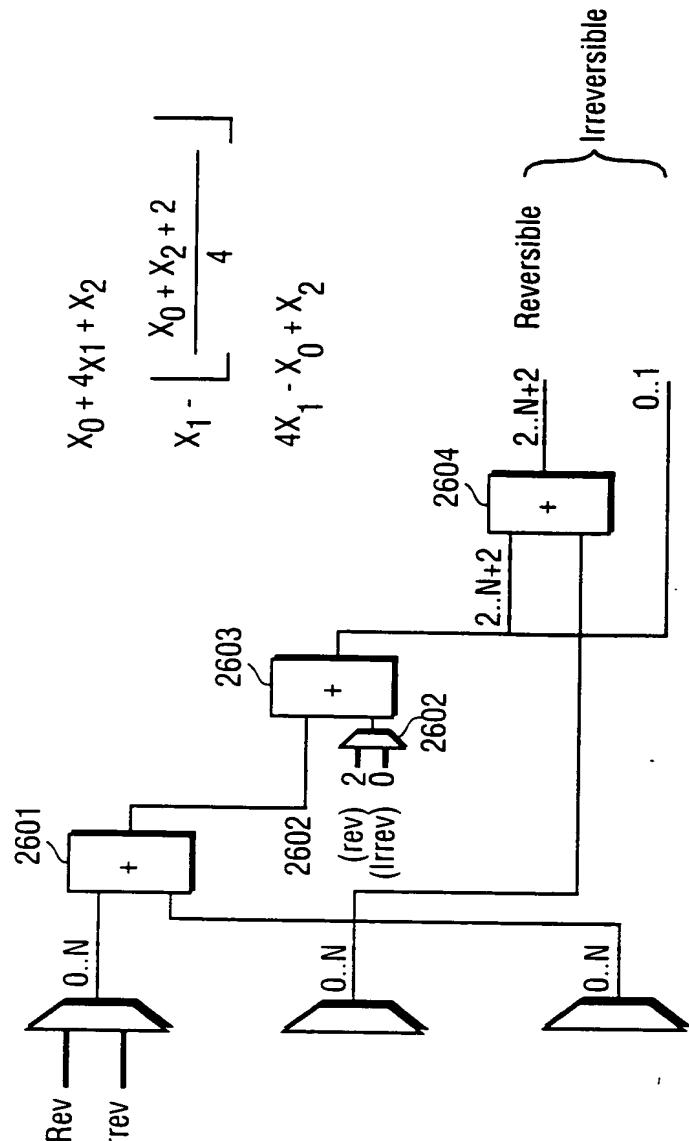


FIG. 25A



$-X_0 + 2X_1 - X_2$

$2501$   
 $2502$   
 $2502$   
 $0..N$   
 $1..N+1$   
 $1..N+1$   
 $0..N$   
 $0..N$   
 $0..N$   
Reversible  
Irreversible



$X_0 + 4X_1 + X_2$

$X_1 - \left[ \frac{X_0 + X_2 + 2}{4} \right]$

$4X_1 - X_0 + X_2$

$2604$

$2..N+2$

$2..N+2$

Reversible  
Irreversible

$0..1$

FIG. 26A



FIG. 25B

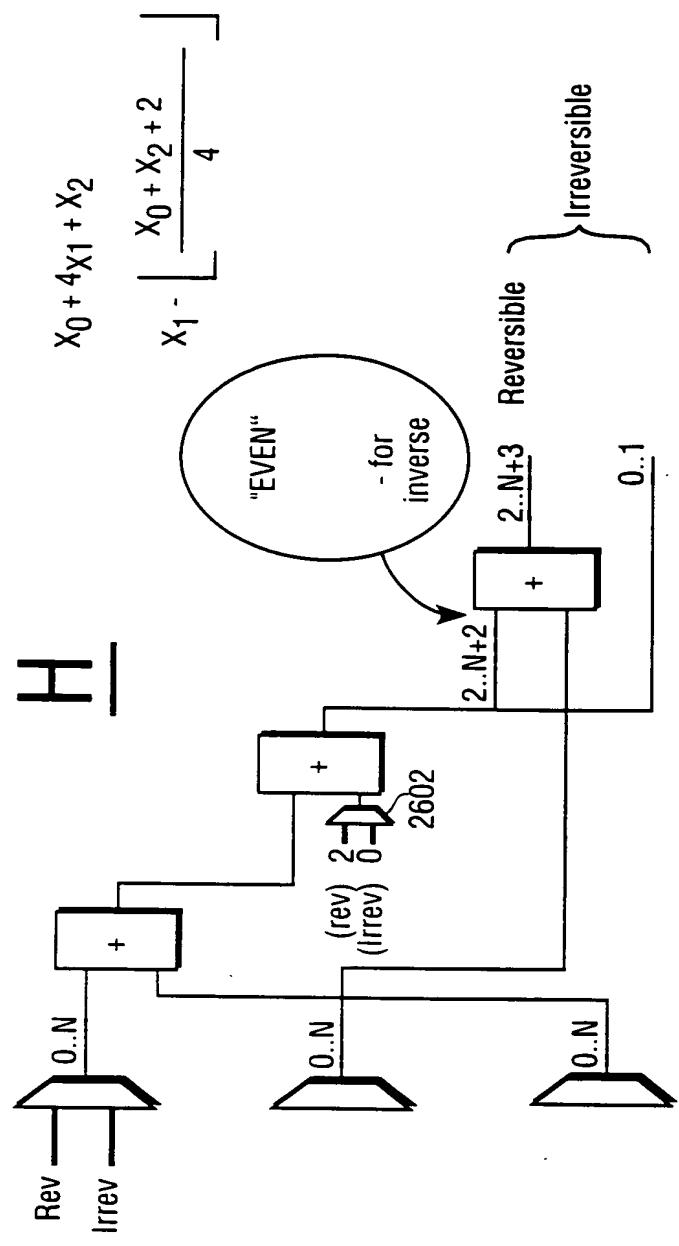
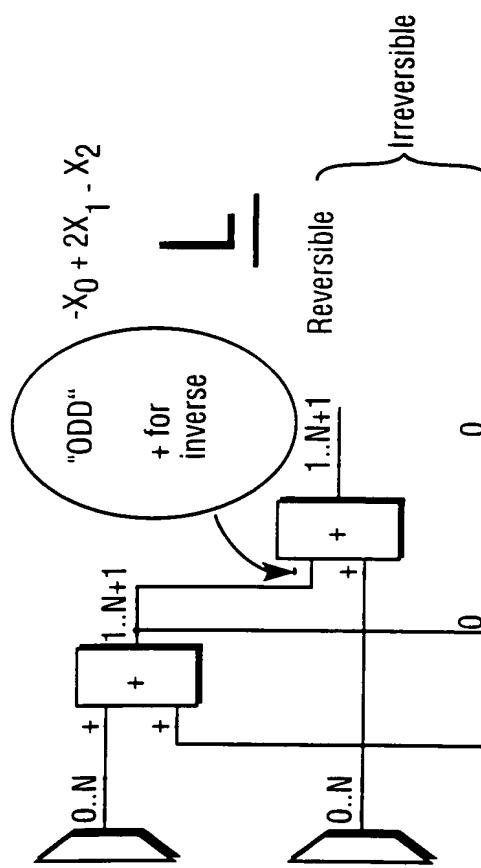
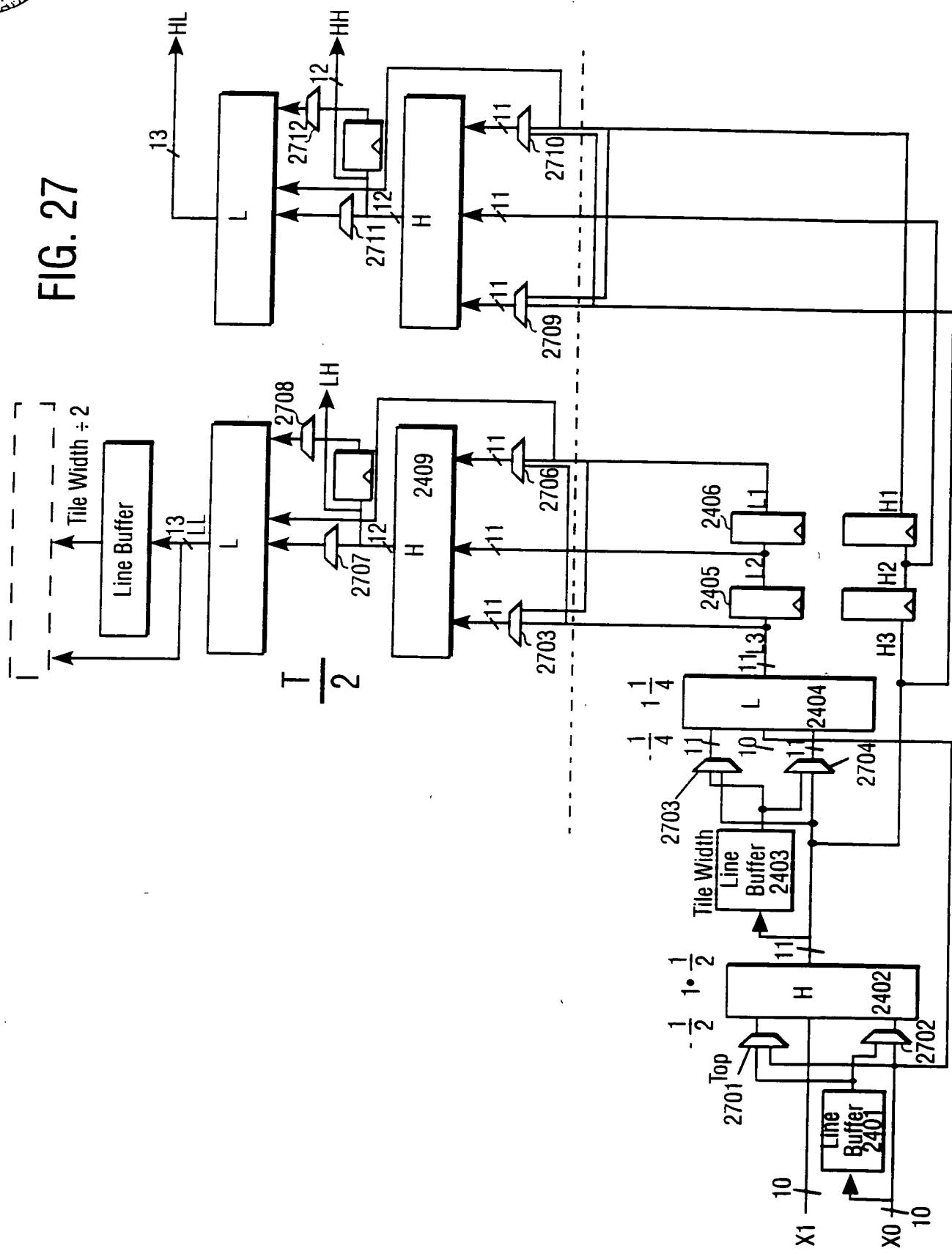


FIG. 26B



FIG. 27



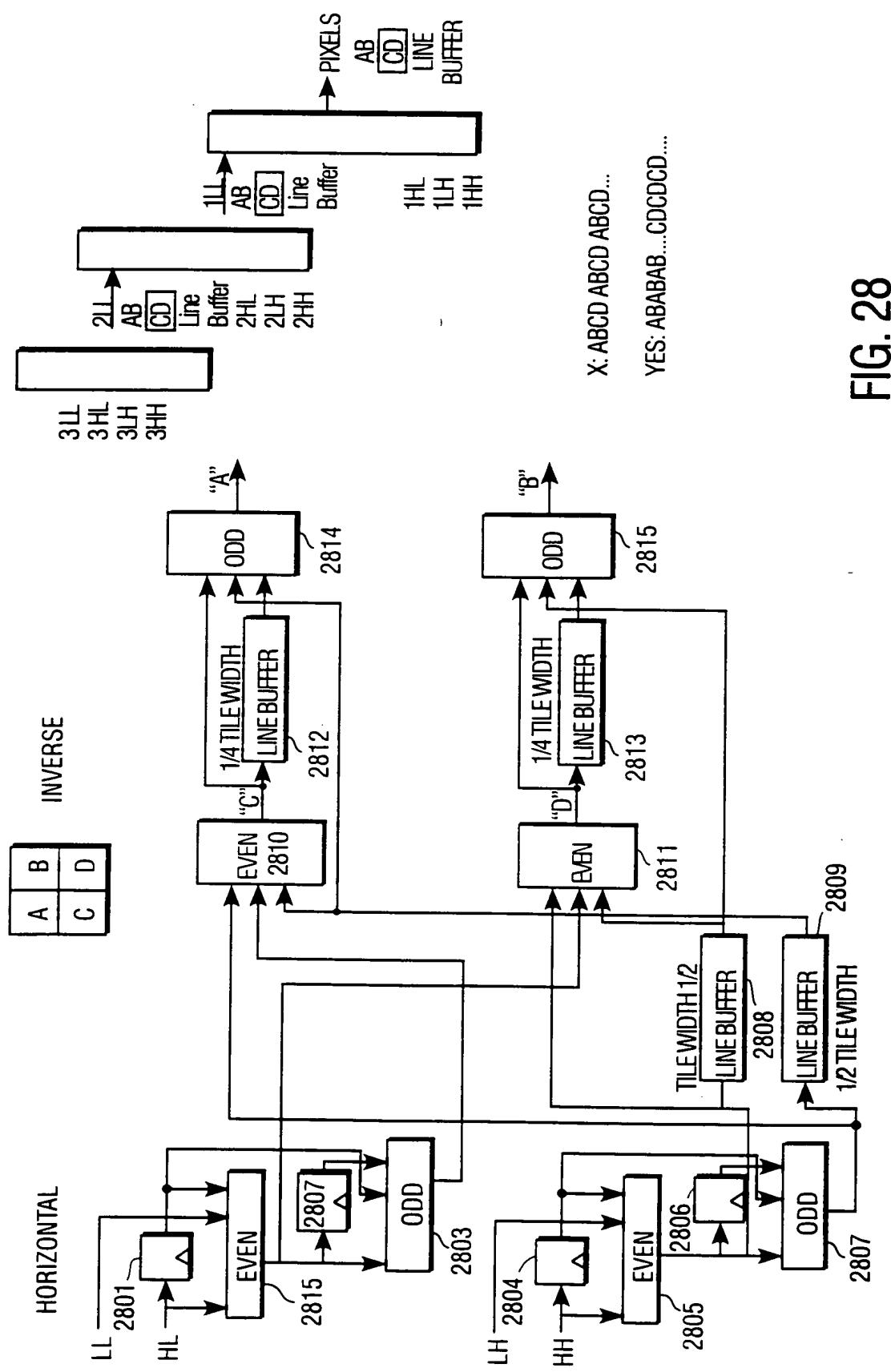
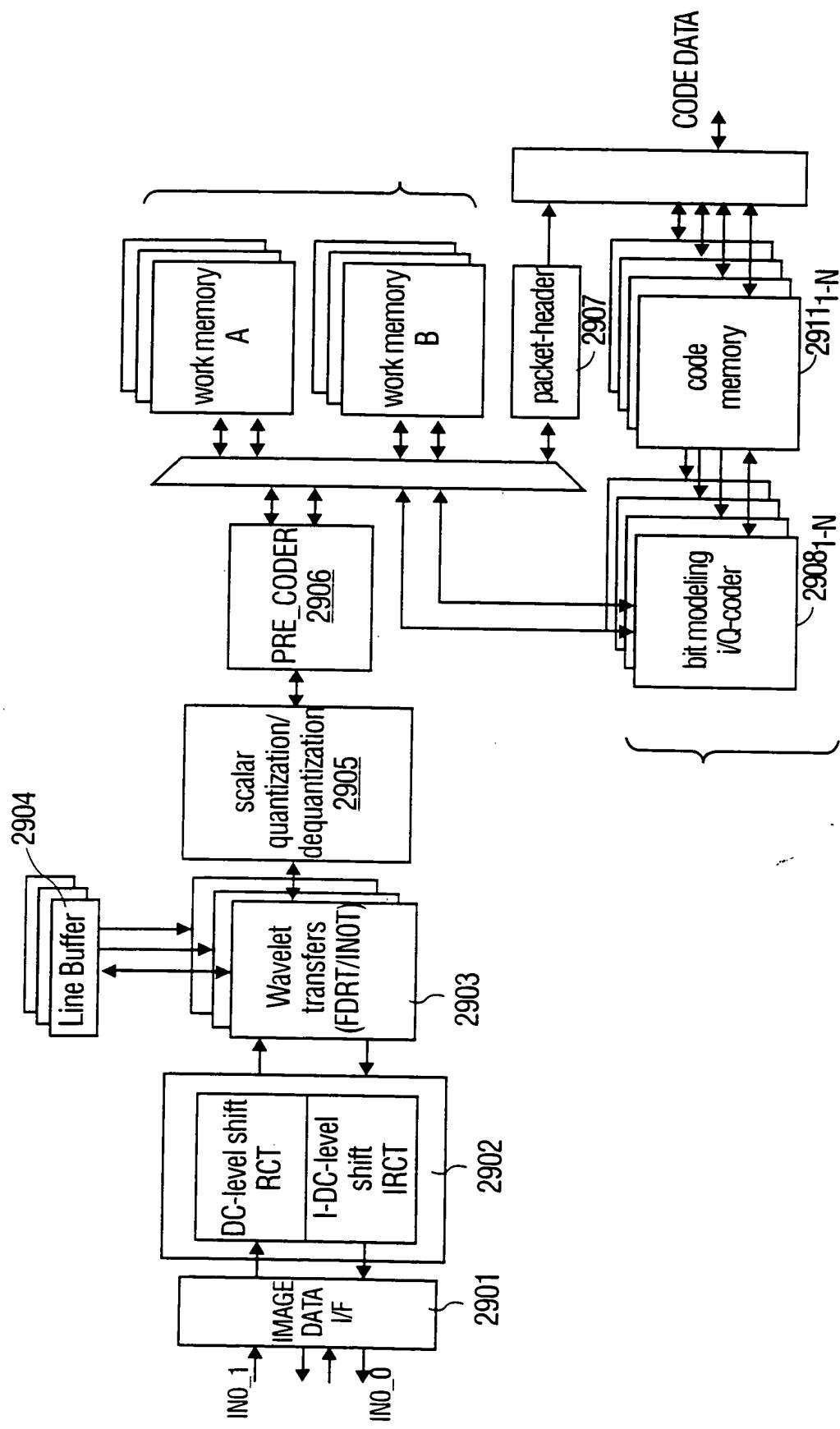
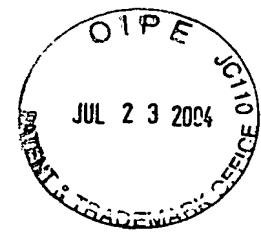
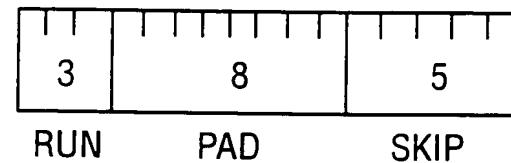


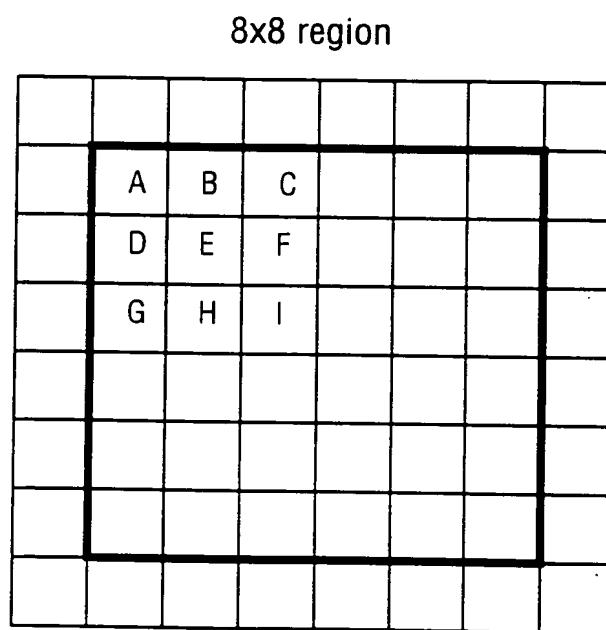
FIG. 28



**FIG. 29**



**FIG. 30**



**FIG. 31**

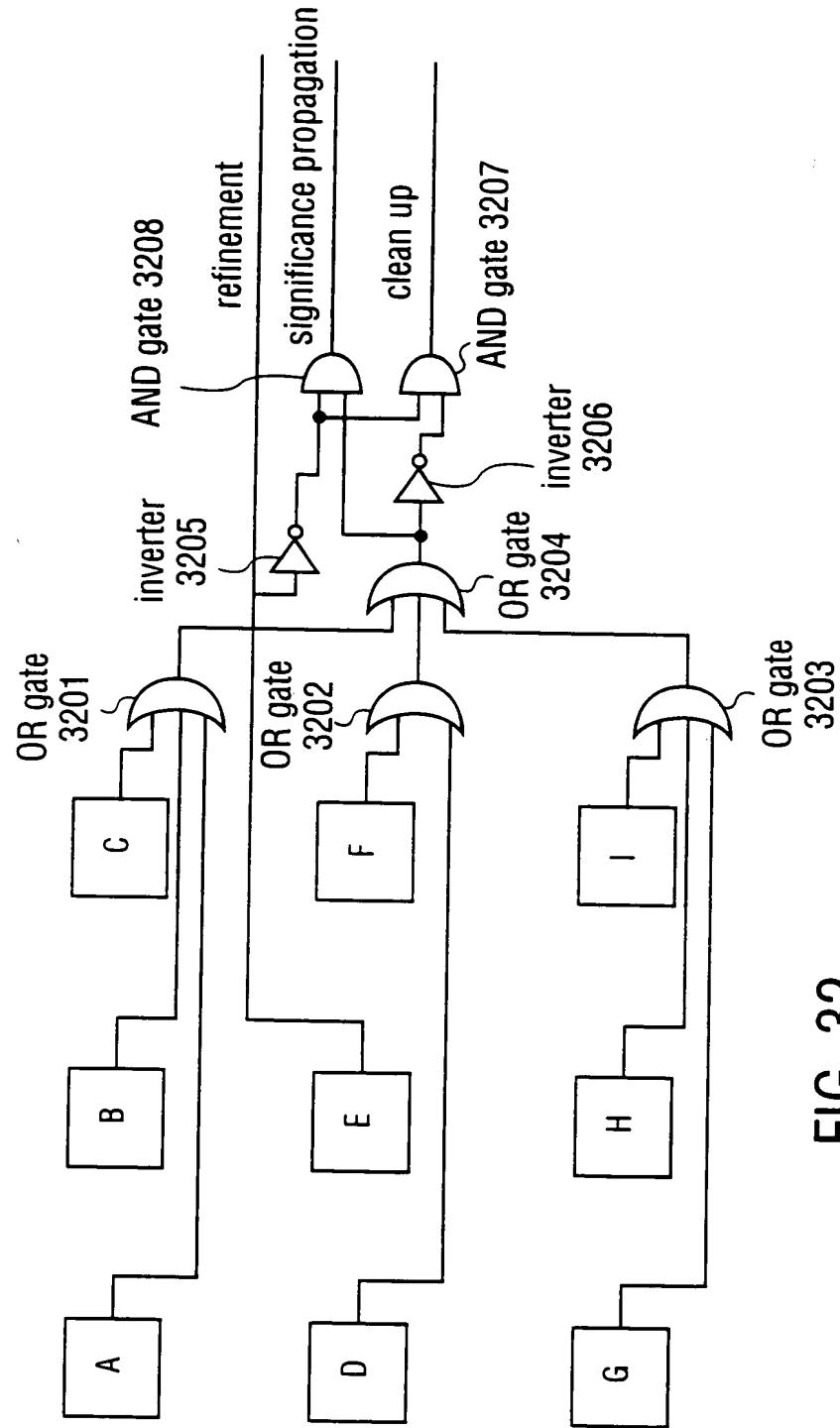


FIG. 32